PTO/SB/08a/b (08-03)
Approved for use litrough 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Sut	stitute for form 1449A	B/PTO		Complete if Known		
				Application Number	10/624,959	
11	NFORMATI	ON DISC	CLOSURE	FBing Date	July 22, 2003	
S	TATEMEN	T BY AP	PLICANT	First Named Inventor	Karen K. Gleason	
				Art Unit	1711	
	(Use as many sheets as necessary)			Examiner Name	Not Yet Assigned	
Sheet	1	of	1	Attorney Docket Number	101328-180	

	U.S. PATENT DOCUMENTS							
Examiner	Cita	Oocument Number	Publication Date		Pages, Columns, Lines, Where			
Initials*	No.	Number-Kind Code ² (Fitnawn)	MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
MY	CW	2002/0042657 A1	04/11/2002	Pugh et al.				
	CX	2002/0062782 A1	05/30/2002	Norris et al.				
	CY	5,852,088	12/22/1998	Dismukes et al.				
	CZ	6,261,469 B1		Zakhidov et al.				
.Y	DA	6,399,666 B1		Hawker et al.				
M	DB	6,413,882 B1	07/02/2002	Leung et al.				

		FOREI	GN PATENT	DOCUMENTS		_
Examiner Initials*	Cite No.	Foreign Patent Document Country Code* -Number*-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or App8cant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	70
Office	DC	WO 01/86038 A2	11/15/2001	Universidad Politecnica De Valencia et al.		-
-MF	DD	WO 01/96635 A2	12/20/2001	Merck Patent GMBH		F

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. "Applicant's unique citation designation number (optional). "See Kinds Codes of USPTO Patent Documents at www.uspio.gov or MPEP 901.04. "Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). "For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document." "Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible." Applicant is to place a check mark here if English language Translation is attached.

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), litle of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²				
148	DG ,	Lanata, M. et al. "Titania Inverse Opals For Infrared Optical Applications" Optical Materials, Vol. 17, pps. 11-14 (2001);					
08	DH	Yan, Hongwei et al. "Influence of Processing Conditions On Structures of 3D Ordered Macroporous Metals Prepared by Colloidal Crystal Templating" Chem. Mater., Vol. 13, pps. 4314-4321 (2001)					

^{*}EXAMINER: Initial if reference considered, whether or not clastion is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

1363179.1

	16.6			
Examiner Signature	Melow fortell	Date Considered	11/04	-
				_

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

JUN 2 5 2004 Junoris Redusers Decision

PTO/SB/08A (10-01)
Approved for use through 10/31/2002.OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE persons are required to respond to a collection of information unless it contains a valid OMB control number.

Sut	stitute for form 1449A/P	10		Complete if Known		
				Application Number	10/624,959 (Conf #6293)	
11	NFORMATIC	N DISC	CLOSURE	Filing Date	July 22, 2003	
S	TATEMENT	BY AP	PLICANT	First Named Inventor	Karen K. Gleason	
				Art Unit	Not Yet Assigned	
	(use as many	sheets as nec	essary)	Examiner Name	Not Yet Assigned	
Sheet	1	of	3	Attorney Docket Number	101328-180	

			U.S. PA	TENT DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MP	AA	4,599,243	07/08/1986	Sachdev et al.	
1	AB	5,521,126	05/28/1996	Okamura et al.	
	AC	6,068,884	05/30/2000	Rose et al.	
	AD	6,090,724	07/18/2000	Shelton et al.	
	ΑE	6,107,357	08/22/2000	Hawker et al.	
	AF	6,214,746 B1	04/10/2001	Leung et al.	
	AG	6,258,735 B1	07/10/2001	Xia et al.	
	AH	6,313,045 B1	11/06/2001	Zhong et al.	
	Αl	6,319,858 B1	11/20/2001	Lee et al.	
	AJ	6,358,863 B1	03/19/2002	Desu et al.	
	AK	6,391,932 B1	05/21/2002	Gore et al.	
	AL	6,420,441 B1	07/16/2002	Allen et al.	
	AM	6,455,443 B1	09/24/2002	Eckert et al.	
	AN	6,495,479 B1	12/17/2002	Wu et al.	
	AO	6,541,367 B1	04/01/2003	Mandal ·	
	AP	6,541,865 B2	04/01/2003	Hawker et al.	
	AQ	2001/0004479 A1	06/21/2001	Cheung et al.	1
	AR	2003/0006477 A1	01/09/2003	Gallahger et al.	
V	AS	2003/0001239 A1	01/02/2003	Gallahger et al.	
115	AT	2002/0137359 A1	09/26/2002	Grill et al.	

FOREIGN PATENT DOCUMENTS							
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant		
	No.1	Country-Number	MM-OD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T⁵	
MF	BA	EP 1 321 976 A2	06/25/2003	Canon Sales Co., Inc.		T	
1	BB	EP 1 148 539 A2	10/24/2001	Applied Materials, Inc.		Т	
Y	BC	EP 1 195 451 A1	04/10/2002	Applied Materials, Inc.			
PUE	BD	WO 03/005429 A1	01/16/2003	Postech Foundation		Т	

JUN 25 2004 HE

PTO/SB/08A (10-01)

Approved for use through 10/31/2002.0MB 0651-0031

U. S. Patent and Trademark Office: U. S. DEPARTMENT OF COMMERCE spond to a collection of information unless it contains a valid OMB control number.

Sub	stitule 10 An 1449A	РТО		Complete If Known		
				Application Number	10/624,959 (Conf #6293)	
11	IFORMATI	ON DISC	LOSURE	Filing Date	July 22, 2003	
S	TATEMEN	T BY APP	PLICANT	First Named Inventor	Karen K. Gleason	
•				Art Unit	Not Yet Assigned	
_	(use as many sheets as necessary)			Examiner Name	Not Yet Assigned	
Sneet	2	of	3	Attorney Docket Number	101328-180	

	_	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	
Examiner Initials	Cite No.1	item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
MF	CA	Baklanov, M.R. et al. "Comparative Study of Porous SOG Films With Different Non- Destructive Instrumentation," IEEE pp. 189-191, (2001);	
1	СВ	Barklanov, M.R. "Determination of Pore Size Distribution In Thin Films By Ellipsometric Porosimetry" J. Vac. Sci. Technol. B., Vol. 18, No. 3, pp. 1385-13981, (2000);	·
	СС	Baklanov, M.R., Mogilnikov, K.P., "Non-Destructive Characterisation of Porous Low-K Dielectric Films," Microelectronic Engineering, Vol. 64, pp. 335-349, (2002);	
	CD	Chen, J.Y. et al. "Microstructure and Mechanical Properties of Surfactant Templated Nanoporous Silica Thin Films" Effect of Methylsilylation," Journal of The Electrochemical Society, Vol. 150, No. 6, pp. F123-F127 (2003);	
	CE	Grill, A. and Neumayer, D. A. "Structure of Low Dielectric Constant To Extreme Low Dielectric Constant SiCOH Films: Fourier Transform Infrared Spectroscopy Characterization," Journal of Applied Physics, Vol. 94, No. 10, pp. 6697-6707 (2003);	
	CF	Grill, A. and Patel, V. "Ultralow-k Dielectrics Prepared By Plasma-Enhanced Chemical Vapor Deposition," Applied Physics Letters, Vol. 79, No. 6, pp. 803-805 (2001);	
	CG	Grill, A. "Plasma Enhanced Chemical Vapor Deposited SiCOH Dieletrics: From Low-k To Extreme Low-k Interconnect Materials," Journal of Applied Physics, Vol. 93, No. 3, pp. 1785-1790 (2003);	
	СН	Grill, A et al. "Characteristics of Low-k and Ultralow-k PECVD Deposited SiCOH Films," Mat. Res. Soc. Symp. Proc., Vol. 716, pp. B12.3.1-B12.3.6 (2002);	
	CI	Grill, A. et al. "Porosity In Plasma Enhanced Chemical Vapor Deposited SiCOH Dielectrics: A Comparative Study," Journal of Applied Physics", Vol. 94, No. 5, pp. 3427-3435, (2003);	
	CJ	Grill, A. and Patel, V. "Low Dielectric Constant Films Prepared By Plasma-Enhanced Chemical Vapor Deposition From Tetramethylsilane," Journal of Applied Physics, Vol. 85, No. 6 pp. 3314-3318 (1999);	
	СК	Hedrick, J. L. et al. "Templating Nanoporosity In Thin-Film Dielectric Insulators," Adv. Mater. Vol. 10, No. 13 pp. 1049-1053 (1998);	
	CL	Park, S.H. and Xia, Y. "Macroporous Membranes With Highly Ordered And Three- Dimensionally Interconnected Spherical Pores," Advanced Materials, Vol. 10, No. 13, pp. 1045-1053 (1998);	
	СМ	Peters, L. "Low-K Dielectrics: Will Spin-On or CVD Prevail?," Semiconductor international, pp. 108-124, (2000);	
	CN	Peters, L. "Removing Barriers To Low-K Dielectric Adoption," Semiconductor International 53-62, (2002);	
	со	Sanchez, M.I. et al. "Nanofoam Porosity By linfrared Spectroscopy," Journal of Polymer Science: Part B: Polymer Physics, Vol. 33, pp. 253-257 (1995);	
	СР	Sanchez, M.I. et al. "Nanofoam Porosity Measured By Infrared Spectroscopy And Refractive Index," Mat. Res. Soc. Symp. Proc., Vol. 431, pp. 475-480, (1996);	
	CQ	Vrtis, R.N. et al. "Plasma Enhanced Chemical Vapor Deposition of Porous Organosilicate Glass ILD Films With k ≤2.4.," Mat. Res. Soc. Symp. Proc., Vol. 766, pp. E7.4.1-E7.4.6, (2003);	
*		Wu, Q. and Geason, K.K. "Plasma-Enhanced Chemical Vapor Deposition of Low-k Dielectric Films Using Methylsilane, Dimethylsilane, and Trimethylsilane Precursors," J. Vac. Sci. Technol., Vol. A 21, No. 2, pp. 388-393 (2003);	
MF	cs	Yang, S. et al. "Nanoporous Ultralow Dielectric Constant Organosilicates Templated By Triblock Copolymers," Chem. Mater., Vol. 14, pp. 369-374 (2002);	

Under the Peakings & Register Mact of 199

PTO/SB/08A (10-01)
Approved for use through 10/31/2002.OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE ct of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Sub	stitute for form 1449A	/PTO		Complete If Known		
				Application Number	10/624,959 (Conf #6293)	
11	NFORMATI	ON DISCI	LOSURE	Filing Date	July 22, 2003	
S	TATEMEN	T BY APF	PLICANT	First Named Inventor	Karen K. Gleason	
				Art Unit	Not Yet Assigned	
	(use as mar	ny sheets as neces	isary)	Examiner Name	Not Yet Assigned	
Sheet	3	of	3	Attorney Docket Number	101328-180	

MF CT	Yim, J-H. et al. "The Preparation and Characterization of Small Mesopores In Siloxane-Based Materials That Use Cyclodextrins as Templates," Adv. Funct. Mater., Vol. 13, No. 5, pp. 382-386 (2003);		
OF CL	Ye, Y-H. et al. "Large-Scale Ordered Macroporous SiO ₂ Thin Films by a Template- Directed Method," Applied Physics Letters, Vol. 81, No. 4, pp. 616-618, (2002);		
CV Zhang, P. et al. "Theory of Metastable Group-IV Alloys Formed From CVD Precursors," Physical Review B, Vgl. 64, pp. 235201-1- 235201-10 (2001).			
Examiner Signature	Motor for the Considered 10/04		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1293235.1

^{&#}x27;Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.